

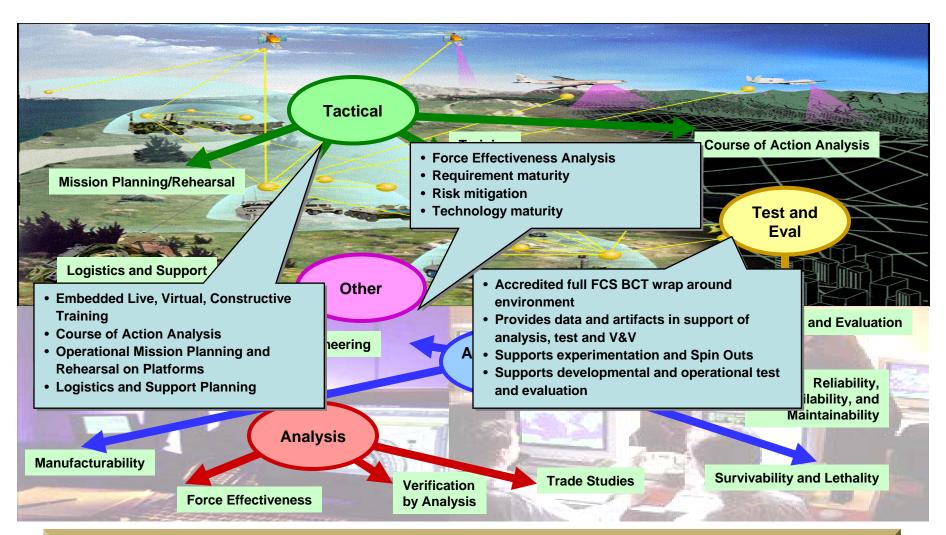
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M&S Overview

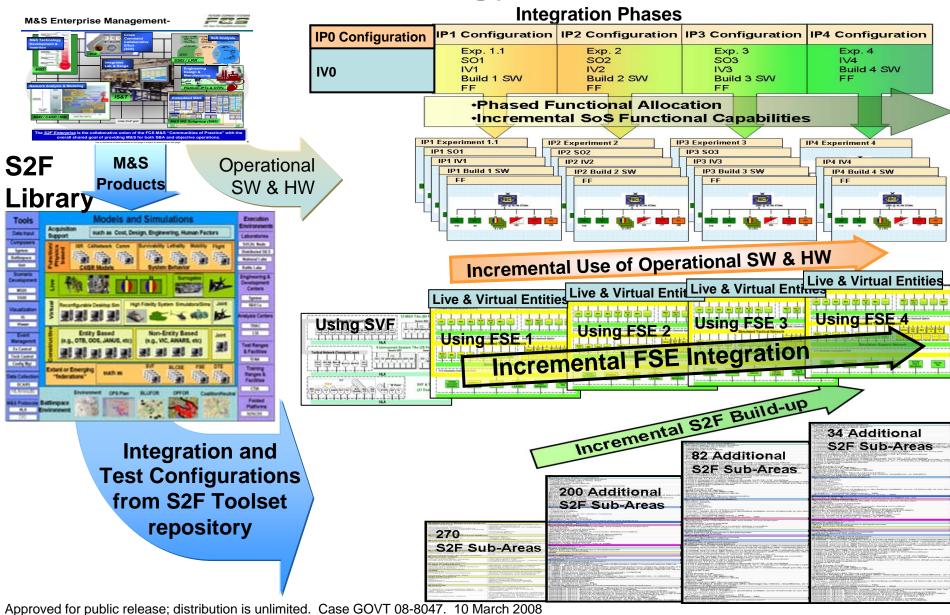




M&S is a key program enabler for all aspects of the program

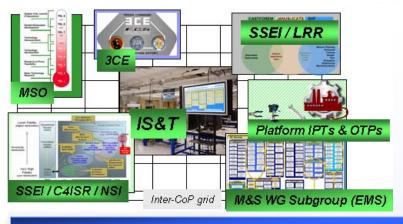
Modeling and Simulation Implementation Strategy





S2F Enterprise Management and Product Development





M&S Technology and Development Insertion

Cross Command Collaborative Effort (3CE)

SoS Analysis

Network Analysis and Modeling

T&E - Integrated Lab and Range

Engineering Design and Manufacturing

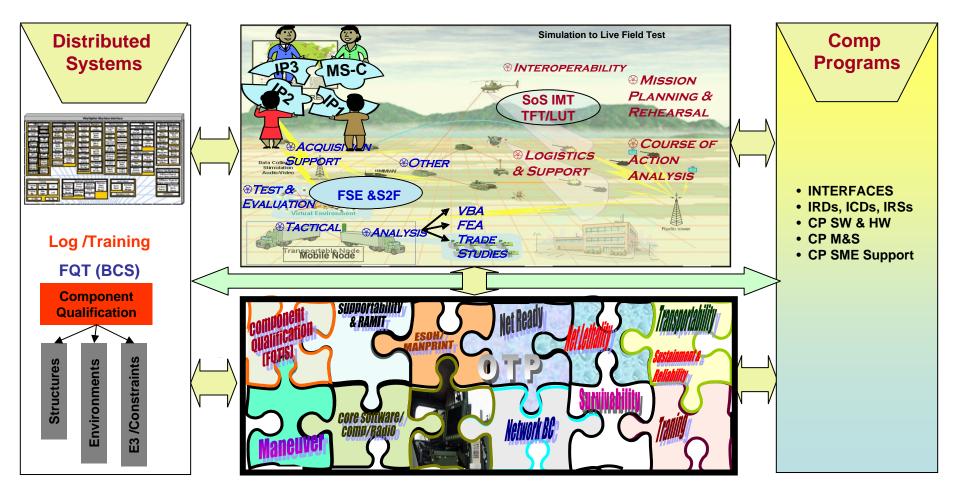
Embedded M&S

The <u>S2F Enterprise</u> is the collaborative union of the FCS M&S "Communities of Practice" with the overall shared goal of providing M&S for both SBA and objective operations

- √ S2F M&S Requirements Flowed down
- √ Established a Community of Practice
- **↗** M&S technology Insertion in Critical Technology Demos
- **7** M&S Product alignment to CPM to support IP events
- ✓ Successful Integration Events 1-6 for SO1 Testing
- ✓ M&S Requirements alignment for DT/OT, FDT&E, Training
- √ S2F and FSE component utilization in SO1 TFT, LUT
- √ Constructive M&S Use in Ongoing FEA, Trade Studies per SoSAP and INAP
- ✓ Ongoing V&V of M&S for Test/Demonstration (Exp 1.1, IMT1)
- 7 IMT1 Assessment Data Supports Incremental VbA
- ✓ Development/Execution of OnePlan for ETE Network Modeling
- **→** Utilization of FSE/CES for IMT1, CT Demos. Baseline Analysis, BCSS Trade Studies, Exp 2.2 Lab AOs (DFM, RBD)
- **7** CES 4.0 FCS Network Transport Sim Configured w/ FCS Baseline Design (i.e. WLS, Spectrum allocation, etc.)
- **7** CES 5 and CES 6 with NMS and dynamic Config. of FCS Network.
- ✓ Successful use of M&S to complete Exp. 1.1
- √ Completed M&S EI (Delta RAP)
- √ S2F Requirements Baselined in DOORS
- **₹** Successful Conduct of SoSIL CDR for IMT1 Road to WSMR
- **₹** Successful conduct of M&S V&VA in IMT2
- **₹** Execution of Distributed M&S and Testing Capabilities for IP2+
- **↗** OTP use Engineering M&S to Support System in Design SIL
- 7 M&S V&V as part of OTP PDR and CDR (UGS)
- ✓ M&S Requirements Definition and Phased Allocation for Embedded M&S (TCC PIDS, CPM)

Integrated SoS M&S and Test Overview





M&S and test activities contribute requisite verification and validation data to successfully demo FCS BCT capability

Summary



- FCS M&S is driven by both the program requirements (the "what"), and the user's needs (the "how much")
- Test is one of the users
 - Shares the same program requirements sets
 - Needs are both as a program tester, and a gov't tester
 - M&S solutions may or may not be different
- Test shares the available M&S assets, and contributes to the asset set (S2F)